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ABSTRACT

This yearbook includes 28 articles related to teachers and students of mathematics education and their changing roles. Part 1, "New Perspectives on Teaching and Learning," focuses on the relationship between research and practice and suggests a perspective based on the belief that mathematical learning consists of students constructing mathematical concepts and procedures. Part 2 offers suggestions for effective methods of teaching mathematics. Part 3 discusses how to broaden horizons in assessing students' mathematical understanding. Part 4, "Cultural Factors in Teaching and Learning," addresses the changing demographics in the United States. Part 5 discusses the role of students in shaping classroom events and the importance of contexts of mathematical applications. Part 6 deals with technology, its increased role in society, and the various types of technology available for classroom use. The last part takes the point of view that teachers must be empowered as decision makers and that the teachers' role must be reconceptualized as they are given increased professional responsibility. (YP)

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